

## CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS—Continued

District and station	Elevation in instruments			Pressure			Temperature of the air										Precipitation		Wind			Clear days	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month	Number of days with thunderstorms						
	Barometer above sea level	Thermometer above ground	Anemometer above ground	Station	Sea level	Departure from normal	Mean max. + min. ÷ 2	Departure from normal	Maximum	Date	Mean maximum	Minimum	Date	Mean minimum	Greatest daily range	Mean temperature of the dew-point	Mean relative humidity	Total	Departure from normal	Days with 0.01 inch or more	Average hourly velocity								Prevailing direction	Maximum velocity				
																														Miles per hour	Direction	Date		
<i>Ft.</i>	<i>Ft.</i>	<i>Ft.</i>	<i>Mbs.</i>	<i>Mbs.</i>	<i>Mbs.</i>	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	<i>In.</i>	<i>In.</i>	<i>Mi</i>					<i>0-10</i>	<i>In.</i>	<i>In.</i>								
<b>South Pacific Coast</b>																																		
Fresno <sup>1</sup>	327	5	35	1,001.7	1,012.9	-1.3	69.6	+2.4	95	26	84	47	16	55	36	44	46	.29	-1.2	4	7.7	nw.	23	nw.	29	17	8	6	3.9	.0	.0	0		
Los Angeles	338	223	250	1,003.7	1,015.2	+1.9	62.4	+2.90	4	71	49	16	54	36	50	71	.02	-1.1	1	6.5	w.	21	sw.	15	6	13	12	6.1	.0	.0	0			
San Diego <sup>1</sup>	87	20	55	1,012.9	1,015.2	+1.9	62.8	+1.5	84	4	70	51	19	56	29	52	70	.22	-1.1	4	7.2	sw.	17	w.	16	12	15	7	.0	.0	0			
<b>West Indies</b>																																		
San Juan, P. R.	82	10	54																															
<b>Panama Canal</b>																																		
Balboa Heights	118	6	92		1,010.8	+1.0	80.4	-1.3	92	2	87	71	8	71	21	74	87	8.35	+1.3	19	5.8	nw.	21	nw.	11	0	15	16	7.5	.0	.0	3		
Cristobal	27	47	97		1,011.2	+1.7	80.2	-1.5	89	26	84	73	12	75	13	74	84	25.43	+12.7	24	9.3	ne.	21	nw.	3	1	9	21	5.1	.0	.0	5		
<b>Alaska</b>																																		
Anchorage <sup>1</sup>	132	6	44	1,004.4	1,009.5		45.0	.0	61	21	53	31	9	37	25	45	68	.51	.0	7	6.3	nw.	25	sw.	4	1	5	25	8.3	.0	.0	0		
Fairbanks <sup>1</sup>	455	4	63	980.8	1,006.8		48.6	+1.7	70	23	60	25	1	37	34	35	64	1.75	+1.1	11	7.4	e.	23	sw.	12	1	8	22	8.0	T	.0	2		
Juneau <sup>1</sup>	80	11	50	1,012.9	1,015.9		46.2		64	23	53	29	9	40	32	39	78	4.27		21	9.1	e.	39	e.	19	3	2	29	7.5	.0	.0	0		
Nome	22	25	56	1,006.4	1,007.1		31.0		56	25	40	6	3	28	25	30	86	.96		12	7.8	e.	22	e.	22	1	11	19	7.8	.3	.0	0		
Gambell	32	5	32	1,007.1	1,008.5		28.9	-1.2	12	10	33	12	3	25	16	28	92	.32	+1.2	19	12.0	ne.				1	3	27	8.0	1.9	1.5	0		
Ketchikan	75	69	90	1,015.9	1,016.6		48.2	-1.4	69	22	54	36	6	42	27	42	81	14.16	+5.6	19	7.7	se.	23	w.	23	2	5	24	8.4	.0	.0	0		
Kotzebue	20	5	31	1,007.8	1,008.5		28.2	-1.7	47	29	35	-2	3	22	30	26	90	.36		8		w.				4	10	17	7.3	.3	T	0		
McGrath	331	5	31	993.6	1,006.1		44.9		64	25	54	26	2	35	31	33	64	1.97	+1.7	6		nw.				0	7	24	8.9	.1	.0	0		
Northway	1,718	5	32	945.8			46.4		75	23	59	26	1	34	35	30	58	.14		4	6.8	w.	22			12	1	6	24	7.9	T	.0	0	
Summit	2,405	5	30	923.1	1,010.8		37.1		54	29	44	21	20	30	27	32	82	2.00		10		w.				0	0	31		6.5	.0	.0	0	
Bethel	28	7	31	1,004.1	1,005.4		40.9	+1.4	59	28	49	19	3	33	24	34	80	2.50	+1.6	12	9.4	n.	29			13	1	12	18	7.6	T	.0	.0	0
<b>Hawaiian Islands</b>																																		
Honolulu	38	86	100	1,017.3	1,018.0		75.4	+1.6	81	26	80	67	21	71	13		.56	-1.2	9	10.0	e.	23	e.	30	19	11	1	3.1	.0	.0	0			

<sup>1</sup> Data are airport records.<sup>2</sup> Barometric data (adjusted to old city elevation) and hygrometric data from airport; otherwise city office records.<sup>3</sup> Observations taken bihourly<sup>4</sup> Pressure (adjusted to old city elevation) temperature and hygrometric data from airport; otherwise city office records.<sup>5</sup> Temperature and precipitation from city office records, other data from airport.

NOTE.—Except as indicated by notes 1, 2, 4, and 5 data in table are city office records.

## SEVERE LOCAL STORMS, MAY 1944

[The table herewith contains such data as has been received concerning severe local storms that occurred during the month. A revised list of tornadoes will appear in the United States Meteorological Yearbook]

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Utica, Kans., and vicinity	1	4:30-5:30 p. m.	17		\$1,000	Heavy hail	Hail covered the ground. Property damaged; crops not advanced sufficiently to be hurt much; path 12 miles long.
Kimbro, New Sweden, and Hutto, Tex., and vicinity	1	4:30-6:30 p. m.	2,640	3	100,000	Tornadoes	A series of small tornadoes occurred; 8 persons injured in a path 10 miles long.
Bloom, Kans., and vicinity	1	6 p. m.	800		1,000	Tornado and hail	Damage mostly to rural property from wind; path 6 miles long.
Fall City, Nebr., and vicinity	1	7-8 p. m., C. W. T.	15	0		do	Several thousand dollars' loss by hail to oats, strawberries, and truck. A small tornado in the vicinity demolished a garage, damaged a car, killed chickens, and damaged all out-buildings with about \$2,000 damage.
Marlin, Tex.	1	8:30 p. m.	2,640		250,000	Hail	Loss mostly to crops; small loss to property.
Payne County, Okla.	1	9:30 p. m.	15		1,500	Wind	Property damaged.
Garfield County, Okla.	2	7 p. m.	67	0	1,000	Tornado	Damage to farm buildings.
Grady County, Okla.	2	8 p. m.	100	0	5,500	do	Property damage, \$5,000; loss in crops, \$500; path 6 miles long.
Fort Wayne, Ind.	3				3,000	Wind and hail	Trees, poles, and wires down; buildings damaged.
Wisconsin, southeastern portion.	3-4	12 p. m., 3d-2:15, 4th			5,000	Wind	Damage greatest in Milwaukee where wires and signs blew down and utility service was disrupted, because of fallen trees.
Cortland County, N. Y.	7	a. m.		0		Tornado winds	Buildings unroofed and some demolished; trees uprooted and power and communication lines broken by falling trees and branches.
Minneapolis, Minn.	10	11:47 a. m., C. W. T.			50,000	Thundersquall	Wires blown down, trees uprooted, and 4 gliders were pulled loose from their moorings and partially wrecked at the Wold-Chamberlain Airport.
Minneapolis, Minn.	10	p. m.				Heavy rain and flood	Hundreds of basements flooded; streetcars and automobile traffic blocked in places and the level of the already swollen Minnehaha Creek raised.
Dodge City, Kans., and vicinity	12	11:55-11:57 p. m.			10,000	Heavy hail	Property damaged.
Rosebud County, Mont.	14	10 p. m.	11			do	Some young lambs injured or killed. Hail up to size of a hen's egg; path 10 miles long.
Shelby County, Ind.	17	7:30 p. m.	13		45,000	Wind	Trees, poles, and wires down; buildings damaged.
Bellevue, W. Va.	17					Electrical and hail	Heavy damage to crops.
Marshall, W. Va.	17				2,000	Rain and flood	Property damaged.
Lake Benton, Minn.	17-18				80,000	Heavy rain	Excessively heavy rains that accompanied a severe thunderstorm washed out railroad tracks, causing a wreck. Highways, bridges, and growing crops damaged.

<sup>1</sup> Miles instead of yards.

## SEVERE LOCAL STORMS, MAY 1944—Continued

[The table herewith contains such data as has been received concerning severe local storms that occurred during the month. A revised list of tornadoes will appear in the United States Meteorological Yearbook]

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Washington and Burt Counties, Nebr.	18	1:45-2 p. m., C. W. T.	170-500	0	175,000	2 tornadoes	Originated in Spiker community, southwest of Herman, in Washington County and moved north-northeastward through northwestern Washington County and central Burt County, passing about 1½ miles west of Tekamah. Principal damage to houses and other farm buildings and equipment with a considerable portion of these destroyed. Another tornado of lesser violence in Nebraska originated northeast of Tekamah at about the same time as the above tornado and moved north-eastward, causing much damage to buildings and equipment on 3 farms. In both tornadoes the loss of livestock was noted. Amount given, estimate of damage from the 2 storms.
Rosebud County, Mont.	18	4 p. m.	15			Heavy hail	Shingles torn from houses. Storm mostly over grazing land. Path 15 miles long.
Minneapolis, Minn., and vicinity.	18	10:59 p. m., C. W. T.			25,000	Thundersquall	12 Army gliders pulled loose from their moorings at the Wold-Chamberlain Airport. 8 being wrecked and 4 damaged. Number of trees uprooted, property damaged, and wires down at several places.
Brown County, Minn.	18	P. m., C. W. T.	12½		8,000	Electrical and hail	Storm moved from southwest to northeast over a path 10 miles long. Loss in growing crops, \$6,000; property damage and poultry killed, \$2,000.
Nicollet, Minn., vicinity of.	18				3,000	Electrical	450 chickens perished when lightning set fire to the coops. Some rural telephones out of commission.
Fort Dodge and Pocahontas, Iowa, vicinity of.	18	P. m.		1	1,000,000	Tornadoes	Property damaged; 12 persons injured, 3 seriously.
Stuart, Va.	20	4 p. m.	12		25,000	Hail	Loss in fruit crop.
Knox City, Tex.	20	8:15 p. m.	880	0	32,000	Tornado and hail	Property damage, due to wind, \$7,000; loss in crops from hail, \$25,000.
Iowa	20			5	1,000,000	Heavy rain, flood, and tornadoes.	Flood waters continued to spread over additional thousands of areas of croplands.
San Antonio, Tex.	21	2:40 a. m.	110		20,000	Wind	Damage to buildings, utility lines, and trees.
Rooks County, Kans., southern portion.	21	10 p. m.-midnight	13		30,000	Heavy hail	Loss in crops severe in parts of the path which was 8 miles long.
Volusia County, Fla.	22	4:10-4:45 p. m.			125,000	Hail	Loss in citrus and victory gardens.
Groveland, Fla.	22				10,000	do.	Loss in watermelon crop.
Pontotoc County, Okla.	23	3:30 a. m.	13		38,250	Hail and wind	Property damage, \$10,000; loss in crops, \$28,250; path 14 miles long.
Roanoke County, Va., southwest portion.	23	2 p. m.	13		75,000	Hail	Loss in fruit.
Rockingham County, Va.	23	do.	11		6,000	do.	Loss in grain, hay, and gardens.
Eagle Pass, Tex.	24	5:15 p. m.			5,000	Wind	Utility property damaged.
Hughes County, S. Dak.	24	p. m.				Wind and rain	Strong wind damaged a smokestack in Blunt, S. Dak., and blew over several windmills, small buildings, and damaged roofs in the vicinity of Canning.
Pipestone, Minn., vicinity of.	25	12 a. m., C. W. T.			3,000	Thundersquall	A sheep shed demolished, a corn crib overturned, and a number of trees uprooted.
Tulsa County, Okla.	25	1:45 p. m.	15		40,000	Wind and hail	Property damaged, \$5,000; loss in crops, \$35,000; path 10 miles long.
Fergus Falls, Minn., and vicinity.	25	3:15 p. m., C. W. T.			25,000	Tornadoic wind, heavy rain, and light hail.	2 large cylindrical grain tanks blown over and a large metal grain tank moved and twisted. Many trees uprooted and branches broken; barns and smaller buildings on several farms demolished or damaged, and some poultry killed. Rain and hail caused some damage to growing crops and gardens.
Pottawatomie County, Okla.	26	8 p. m.	150	0	26,000	Tornado	Property damage, \$1,000; loss in crops, \$25,000; 2 persons injured.
Botetourt County, Va.	28	4:30 p. m.	13		3,000	Hail	Loss in apple crop.
Gainesville, Fla., and vicinity.	29				1,500	Wind	Loss in crops, \$1,000; property damaged, \$500.
Dodge County, Wis., northwestern portion.	30	7-9 p. m., C. S. T.			6,000	Thunderstorm	Considerable damage by lightning and minor damage from wind. 2 barns, a granary and contents and 20 hogs destroyed by fire; 13 cattle electrocuted and utility lines disrupted.
Marionette County, Wis.	30	10 p. m.			5,000	Electrical	Barn with hay, grain, coal, and 150 chickens burned; silo and few trees down and utility service disrupted.
Minneapolis, Minn., and vicinity.	30	p. m.			6,700	do.	A cottage on Big Island, Lake Minnetonka, destroyed, and 3 street cars struck by lightning and damaged.
Lincoln County, Mont.	30					Heavy hail	Storm over grazing area.
Appleton, Wis., and vicinity.	31	3:45 p. m., C. S. T.			10,000	Thunderstorm	2.31 inches of rain, falling in a short time, recorded during this storm. Trees blown down breaking utility lines; many basements flooded.
Groom, Tex.	31	p. m.	15		550,000	Hail	Loss in wheat and row crops; some additional damage to roofs and buildings.

<sup>1</sup> Miles instead of yards.